

Application Serial No.: 10/802,892
Amdt. dated January 5, 2006
Reply to Office Action of October 17, 2005

AMENDMENTS TO THE SPECIFICATION

On page 11, please replace paragraph [0041] with the following:

The cut lengths of the guides 29 and 30 and furthermore the bushing 43 are then introduced into a hole 44, which extends along the working strokes 25 and 26 in the housing 14 in the end wall 18. In the mounted state the bushing 43 abuts against the end wall 18 and is held by same. The bushing 43 acts as an oscillation absorbing means 36. Otherwise the wave guide 29 is able to oscillate in the hole 44 so that the ultrasonic waves 34 and 35 may be propagated in it. It is also possible for the hole 44 to be filled by a potting composition which is elastic as regards oscillations. Furthermore it is possible in principle for the hole to be filed with such a potting composition only adjacent to the end wall 18. Furthermore in principle a drop of adhesive or the like may be applied, preferably adjacent to the bushing 43, for damping oscillations. It is further possible for the wave guide 29 and/or the return guide 30 to be arranged in a guard tube 80. Such guard tube 80 is best arranged along the working stroke of the actuator on the housing of the actuator device.

On page 21, please replace the Abstract with the following:

A method for the production of an actuator device and an actuator device. The actuator device comprises a more particularly fluid power driven actuator able to move in a housing and a position detecting means, in the case of which by means of an exciting current from a current source an actuator in a magnetostrictive wave guide a concentric magnetic field may be produced, such wave guide being arranged along a working stroke of the actuator, such magnetic field being able to be so influenced by a position indicating magnet arranged on the actuator that an ultrasonic wave deforming the wave guide is obtained. A measurement means is present for the position of the position indicating magnet on the basis of measurement of the transit time of the ultrasonic wave. The wave guide and a return guide for the reflux of the exciting current to the current source are made available on an assembly stage in a predetermined amount suitable for measurement paths of different length, at which the actuator is assembled. At an assembly stage the wave guide is cut to a length suitable for

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the measurement path of the respective actuator device to be produced and is electrically connected with the return guide.

Figure 2